

AMENDMENTS TO THE CLAIMS

1-18. (canceled)

19. (currently amended): A method for reducing an amount of β -amyloid deposits comprising β -amyloid peptide (A β) from β -amyloid precursor protein (APP) or a fragment thereof in [[an]] a central nervous system (CNS) of a mammal comprising administering to said mammal an effective amount of BACE2 or an agonist thereof.

20. (original): The method of claim 19 wherein said mammal is human.

21. (previously presented): The method of claim 19 wherein said APP is a native sequence human APP.

22. (previously presented): The method of claim 21 wherein said APP is an APP isoform consisting of 695-amino acids.

23. (previously presented): The method of claim 21 wherein said APP contains a Swedish mutation.

24. (previously presented): The method of claim 19 wherein said APP fragment is β -CTF.

25. (previously presented): The method of claim 19 wherein said BACE2 is a native sequence BACE2 polypeptide.